



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 5 CHICAGO REGIONAL LABORATORY**  
**536 SOUTH CLARK STREET**  
**CHICAGO, ILLINOIS 60605**

**Date:** 8/27/2010

**Subject:** Review of Region 5 Data for R06 Deep Water Grand Isle

**From:** David Schroeder *D.S.*  
Region 5 Chicago Regional Laboratory

**To:** Region 6, US EPA  
10625 Fallstone Road  
Houston, TX 77099

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

**Attached are Results for: R06 Deep Water Grand Isle**

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Analyses included in this report:**

RAM-DOSS



Environmental Protection Agency Region 5  
**Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Grand Isle  
Project Number: T0033-100403-20100822-02  
Project Manager: Kristie Warr

**Reported:**  
Aug-27-10 10:58

**ANALYSIS CASE NARRATIVE**  
**Analyst: David Schroeder (312) 353-3100**

**General Information**

Twelve subsurface samples were received by the Chicago Regional Laboratory (CRL) and prepared for dioctyl sulfosuccinate (DOSS) analysis on August 25, 2010. The samples were received at or less than 6°C.

**Sample Analysis and Results**

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS reporting level (20 ppb) or the Region 5 and Region 6 DOSS identification level of 10 ppb.

DOSS is surface active. The surface activity results in DOSS adhering to many materials. Sampling techniques that expose samples to materials other than the sample container may reduce DOSS concentration in samples. Sampling techniques such as peristaltic pumping expose the sample to large surface areas compared to sample volume. The Chicago Regional Laboratory has found that polyethylene tubing binds DOSS. DOSS association with peristaltic tubing materials likely results in bias low DOSS concentrations.

The 1008047, 1008048, 1008049 and 1008050 supporting data are stored with 1008046.

**Quality Control**

The DOSS relative percent difference between B1000896-MS2 and B1000896-MSD2 was 40%. The DOSS relative percent difference between B1000896-MS3 and B1000896-MSD3 was 41%. The B1000896-MSD3 DOSS result less than the 50% recovery limit, but the B1000896-MS3 DOSS result was within the recovery limit. All affected results were qualified estimated (J).

The 1008046-02, 1008046-04, 1008049-02 and B100896-MSD3 DOSS-D34 recoveries were below the 50% recovery limit, therefore the DOSS results for these samples were qualified estimated (J).

All quality control criteria not mentioned met acceptance limits stated in the method.



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## ANALYTICAL REPORT FOR SAMPLES

| Sample ID                 | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|---------------------------|---------------|--------|-----------------|-----------------|
| T008-0058-100822-SW-3.0-1 | 1008046-01    | Water  | Aug-22-10 09:20 | Aug-25-10 07:45 |
| T008-0057-100822-SW-24-1  | 1008046-02    | Water  | Aug-22-10 10:30 | Aug-25-10 07:45 |
| T008-0057-100822-SW-13-1  | 1008046-03    | Water  | Aug-22-10 10:30 | Aug-25-10 07:45 |
| T008-0056-100822-SW-3.0-1 | 1008046-04    | Water  | Aug-22-10 12:10 | Aug-25-10 07:45 |



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Project Manager: Kristie Warr

Reported:  
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## Analysis by LC MS MS

### US EPA Region 5 Chicago Regional Laboratory

T008-0058-100822-SW-3.0-1 (1008046-01) Water Sampled: Aug-22-10 09:20 Received: Aug-25-10 07:45

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Limit | Units | Dilution | Batch   | Prepared  | Analyzed  |
|------------------------|--------|-----------------------|-----|-------|-------|----------|---------|-----------|-----------|
| dioctyl sulfosuccinate | U      |                       |     | 20.3  | ug/L  | 1        | B100896 | Aug-25-10 | Aug-25-10 |

Surrogate: DOSS-D34 154 87.4 % 50-150 " " "

T008-0057-100822-SW-24-1 (1008046-02) Water Sampled: Aug-22-10 10:30 Received: Aug-25-10 07:45

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Limit | Units | Dilution | Batch   | Prepared  | Analyzed  |
|------------------------|--------|-----------------------|-----|-------|-------|----------|---------|-----------|-----------|
| dioctyl sulfosuccinate | U      | J                     |     | 19.7  | ug/L  | 1        | B100896 | Aug-25-10 | Aug-25-10 |

Surrogate: DOSS-D34 66.9 39.0 % 50-150 " " "

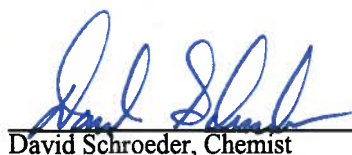
T008-0057-100822-SW-13-1 (1008046-03) Water Sampled: Aug-22-10 10:30 Received: Aug-25-10 07:45

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Limit | Units | Dilution | Batch   | Prepared  | Analyzed  |
|------------------------|--------|-----------------------|-----|-------|-------|----------|---------|-----------|-----------|
| dioctyl sulfosuccinate | U      |                       |     | 19.4  | ug/L  | 1        | B100896 | Aug-25-10 | Aug-25-10 |

Surrogate: DOSS-D34 117 67.5 % 50-150 " " "

T008-0056-100822-SW-3.0-1 (1008046-04) Water Sampled: Aug-22-10 12:10 Received: Aug-25-10 07:45

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Limit | Units | Dilution | Batch   | Prepared  | Analyzed  |
|------------------------|--------|-----------------------|-----|-------|-------|----------|---------|-----------|-----------|
| dioctyl sulfosuccinate | U      | J                     |     | 21.4  | ug/L  | 1        | B100896 | Aug-25-10 | Aug-25-10 |

  
David Schroeder, Chemist



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Reported:  
Aug-27-10 10:58

**Analysis by LC MS MS**

**US EPA Region 5 Chicago Regional Laboratory**

T008-0056-100822-SW-3.0-1 (1008046-04) Water Sampled: Aug-22-10 12:10 Received: Aug-25-10 07:45

| Analyte             | Result | Flags /<br>Qualifiers | MDL | Limit  | Units | Dilution | Batch   | Prepared  | Analyzed  |
|---------------------|--------|-----------------------|-----|--------|-------|----------|---------|-----------|-----------|
| Surrogate: DOSS-D34 | 80.0   |                       |     | 46.8 % |       | 50-150   | B100896 | Aug-25-10 | Aug-25-10 |

  
David Schroeder, Chemist



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Reported:  
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## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

#### Blank (B100896-BLK1)

Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| dioctyl sulfosuccinate | U      |                       |     | 20.2               | ug/L  |                |                  |      |                |     |              |

Surrogate: DOSS-D34 256 " 205.1 125 50-150

#### LCS (B100896-BS1)

Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| dioctyl sulfosuccinate | 228    |                       |     | 20.8               | ug/L  | 210.5          |                  | 108  | 50-150         |     |              |

Surrogate: DOSS-D34 231 " 210.5 110 50-150

#### LCS Dup (B100896-BSD1)

Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|------|--------------|
| dioctyl sulfosuccinate | 207    |                       |     | 20.2               | ug/L  | 185.2          |                  | 112  | 50-150         | 9.95 | 30           |

Surrogate: DOSS-D34 198 " 185.2 107 50-150



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Aug-27-10 10:58

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

| Duplicate (B100896-DUP1) |        | Source: 1008046-01    |     |                    | Prepared & Analyzed: Aug-25-10 |                |                  |      |                |     |              |
|--------------------------|--------|-----------------------|-----|--------------------|--------------------------------|----------------|------------------|------|----------------|-----|--------------|
| Analyte                  | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units                          | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
| diethyl sulfosuccinate   | U      |                       |     | 20.4               | ug/L                           |                | U                |      |                |     | 200          |

Surrogate: DOSS-D34 147 " 173.9 84.7 50-150

| Duplicate (B100896-DUP2) |        | Source: 1008047-01    |     |                    | Prepared & Analyzed: Aug-25-10 |                |                  |      |                |     |              |
|--------------------------|--------|-----------------------|-----|--------------------|--------------------------------|----------------|------------------|------|----------------|-----|--------------|
| Analyte                  | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units                          | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
| diethyl sulfosuccinate   | U      |                       |     | 19.6               | ug/L                           |                | U                |      |                |     | 200          |

Surrogate: DOSS-D34 87.0 " 171.7 50.7 50-150

| Duplicate (B100896-DUP3) |        | Source: 1008048-01    |     |                    | Prepared & Analyzed: Aug-25-10 |                |                  |      |                |     |              |
|--------------------------|--------|-----------------------|-----|--------------------|--------------------------------|----------------|------------------|------|----------------|-----|--------------|
| Analyte                  | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units                          | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
| diethyl sulfosuccinate   | U      | J                     |     | 18.7               | ug/L                           |                | U                |      |                |     | 200          |

Surrogate: DOSS-D34 108 " 173.9 62.0 50-150

| Duplicate (B100896-DUP4) |  | Source: 1008049-01 |  |  | Prepared & Analyzed: Aug-25-10 |  |  |  |  |  |  |
|--------------------------|--|--------------------|--|--|--------------------------------|--|--|--|--|--|--|
|--------------------------|--|--------------------|--|--|--------------------------------|--|--|--|--|--|--|



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Aug-27-10 10:58

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | U      |                       |     | 19.2               | ug/L  |                | U                |      |                |     | 200          |

Surrogate: DOSS-D34 143 " 172.4 82.7 50-150

### Duplicate (B100896-DUP5)

Source: 1008050-03

Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | U      |                       |     | 19.6               | ug/L  |                | U                |      |                |     | 200          |

Surrogate: DOSS-D34 159 " 193.2 82.3 50-150

### Matrix Spike (B100896-MS1)

Source: 1008046-01

Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | 145    |                       |     | 20.3               | ug/L  | 172.4          | U                | 83.8 | 50-150         |     |              |

Surrogate: DOSS-D34 135 " 172.4 78.0 50-150

### Matrix Spike (B100896-MS2)

Source: 1008047-01

Prepared & Analyzed: Aug-25-10



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Reported:  
Aug-27-10 10:58

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | 175    |                       |     | 19.4               | ug/L  | 172.4          | U                | 101  | 50-150         |     |              |

Surrogate: DOSS-D34 168 " 172.4 97.7 50-150

### Matrix Spike (B100896-MS3) Source: 1008048-01 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | 128    | J                     |     | 18.7               | ug/L  | 173.2          | U                | 74.0 | 50-150         |     |              |

Surrogate: DOSS-D34 130 " 173.2 75.0 50-150

### Matrix Spike (B100896-MS4) Source: 1008049-01 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| diethyl sulfosuccinate | 119    |                       |     | 19.7               | ug/L  | 172.4          | U                | 69.2 | 50-150         |     |              |

Surrogate: DOSS-D34 123 " 172.4 71.5 50-150

### Matrix Spike (B100896-MS5) Source: 1008050-03 Prepared & Analyzed: Aug-25-10



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## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|
| dioctyl sulfosuccinate | 149    |                       |     | 19.6               | ug/L  | 194.2          | U                | 77.0 | 50-150         |     |              |

Surrogate: DOSS-D34 150 " 194.2 77.4 50-150

### Matrix Spike Dup (B100896-MSD1) Source: 1008046-01 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|------|--------------|
| dioctyl sulfosuccinate | 138    |                       |     | 20.0               | ug/L  | 173.9          | U                | 79.1 | 50-150         | 4.92 | 30           |

Surrogate: DOSS-D34 132 " 173.9 75.9 50-150

### Matrix Spike Dup (B100896-MSD2) Source: 1008047-01 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|------|--------------|
| dioctyl sulfosuccinate | 116    |                       |     | 19.7               | ug/L  | 170.9          | U                | 67.8 | 50-150         | 40.6 | 30           |

Surrogate: DOSS-D34 114 " 170.9 66.4 50-150

### Matrix Spike Dup (B100896-MSD3) Source: 1008048-01 Prepared & Analyzed: Aug-25-10



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### Batch B100896 - \*\*\* DEFAULT PREP \*\*\*

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|------|--------------|
| diethyl sulfosuccinate | 84.4   | J                     |     | 20.0               | ug/L  | 173.2          | U                | 48.7 | 50-150         | 41.2 | 30           |

Surrogate: DOSS-D34 80.7 " 173.2 46.6 50-150

### Matrix Spike Dup (B100896-MSD4) Source: 1008049-01 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|------|--------------|
| diethyl sulfosuccinate | 134    |                       |     | 19.7               | ug/L  | 174.7          | U                | 76.9 | 50-150         | 11.8 | 30           |

Surrogate: DOSS-D34 124 " 174.7 70.9 50-150

### Matrix Spike Dup (B100896-MSD5) Source: 1008050-03 Prepared & Analyzed: Aug-25-10

| Analyte                | Result | Flags /<br>Qualifiers | MDL | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit |
|------------------------|--------|-----------------------|-----|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|
| diethyl sulfosuccinate | 148    |                       |     | 19.8               | ug/L  | 190.5          | U                | 77.9 | 50-150         | 0.705 | 30           |

Surrogate: DOSS-D34 148 " 190.5 77.6 50-150



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## Notes and Definitions

- J The identification of the analyte is acceptable; the reported value is an estimate.
- U Not Detected
- NR Not Reported

### Items for Project Manager Review

| LabNumber    | Analysis | Analyte                | Exception                     |
|--------------|----------|------------------------|-------------------------------|
|              |          |                        | Default Report (not modified) |
|              |          |                        | VERSION 6.05:2003             |
|              |          |                        | Special Units: (ug/L)         |
| 1008046-02   | RAM-DOSS | (Water)                |                               |
|              | RAM-DOSS | DOSS-D34               | Exceeds lower control limit   |
| 1008046-04   | RAM-DOSS | DOSS-D34               | Exceeds lower control limit   |
| B100896-MSD2 | RAM-DOSS | dioctyl sulfosuccinate | Exceeds RPD control limit     |
| B100896-MSD3 | RAM-DOSS | dioctyl sulfosuccinate | Exceeds lower control limit   |
| B100896-MSD3 | RAM-DOSS | dioctyl sulfosuccinate | Exceeds RPD control limit     |
| B100896-MSD3 | RAM-DOSS | DOSS-D34               | Exceeds lower control limit   |